

1. (cancelled)

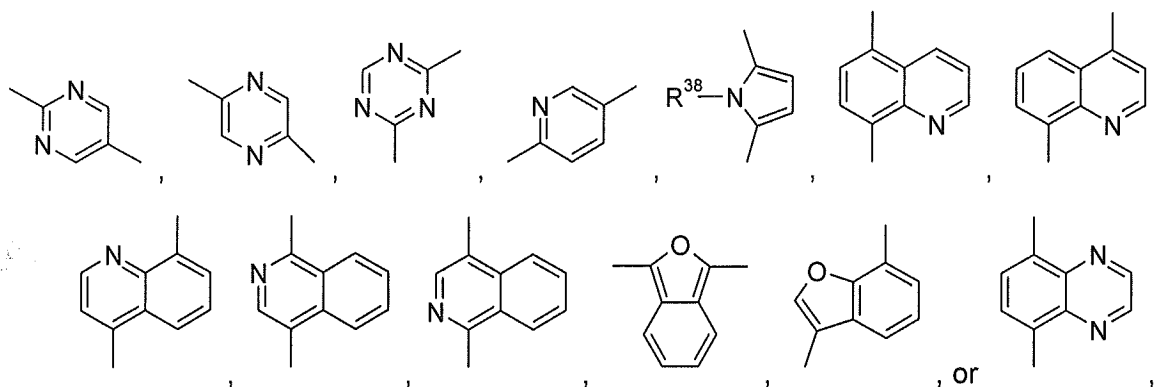
(I), The polymer according to claim 1,

R¹ and R² are independently of each other a C₁-C₂₅alkyl group which can optionally be interrupted by one or more oxygen atoms, an allyl group which can optionally be substituted one to three times with C₁-C₄alkyl, a cycloalkyl group which can be optionally substituted one to three times with C₁-C₈alkyl or C₁-C₈alkoxy, a cycloalkyl group which can optionally be condensed one or two times by phenyl which phenyl can optionally be substituted one to three times with C₁-C₄-alkyl, halogen, nitro or cyano, an alkenyl group, a cycloalkenyl group, an alkynyl group; a C₁-C₂₅alkyl group, an alkenyl group or an alkynyl group substituted partially or wholly by halogen, an aldehyde group, an ester group, a carbamoyl group, a ketone group, a silyl group, a siloxanyl group, Ar³ or a group -CR³R⁴-(CH₂)₀-Ar³,

Ar³ stands for aryl or heteroaryl and q stands for 0, 1, 2, 3 or 4,

Ar¹ and Ar² are independently of each other-

The structures shown are: thiophene, furan, pyrrole, pyridine, selenophene, silole, indole, and a 2,4,6-trisubstituted benzene ring with a substituent R⁶.

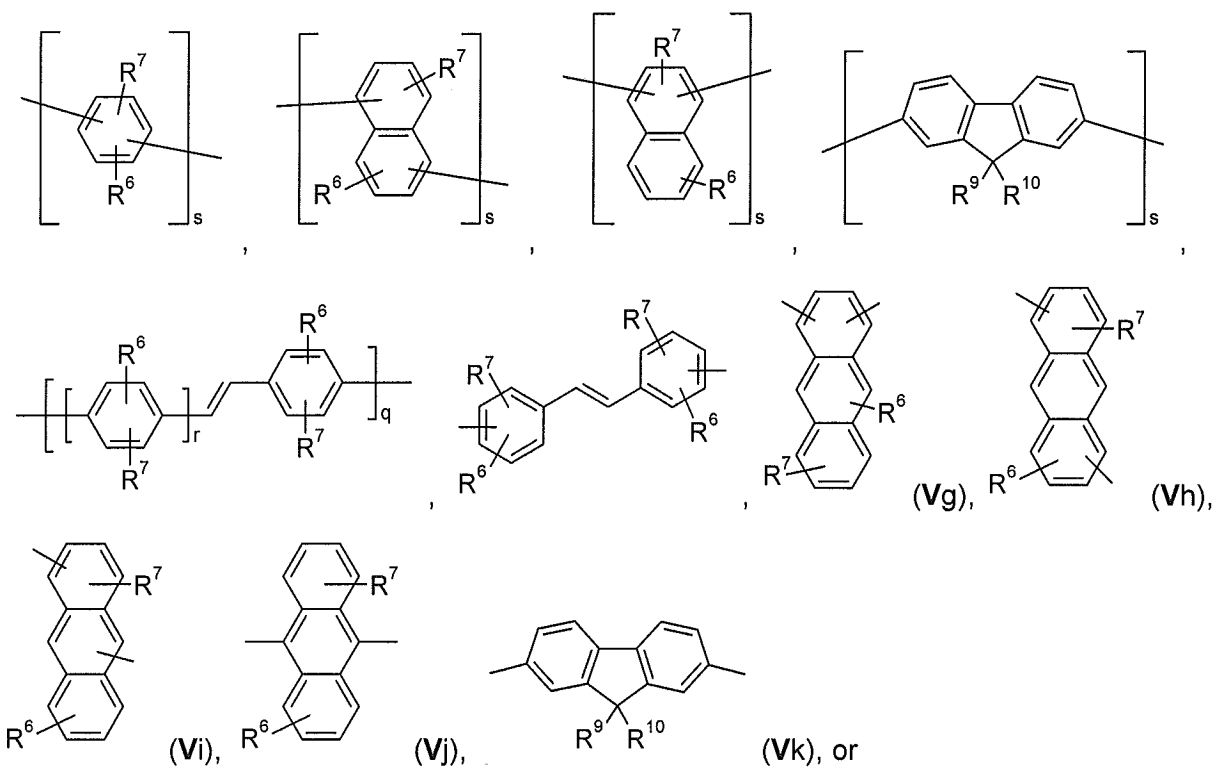


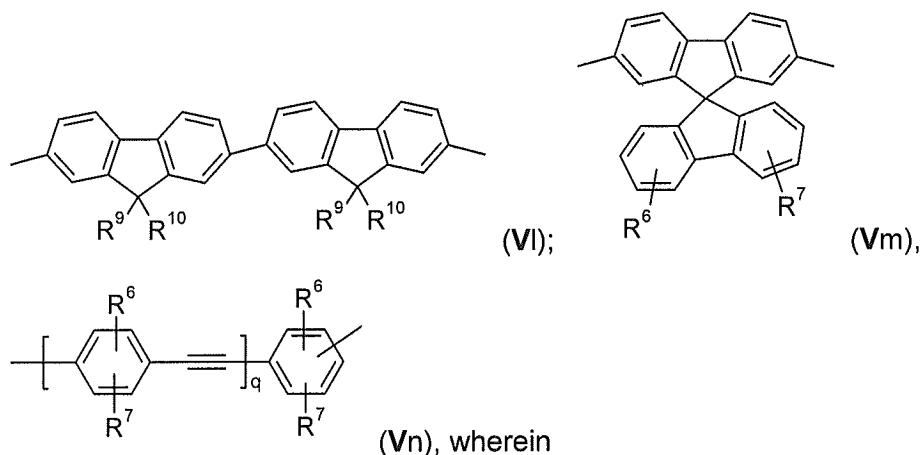
wherein R^6 is hydrogen, C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy and

R^{38} stands for hydrogen, C_6 - C_{10} aryl, C_7 - C_{12} alkylaryl, C_7 - C_{12} aralkyl, or C_1 - C_8 -alkyl.

3. (cancelled)

4. (currently amended) The polymer according to claim **[1]** 2, further comprising one or more repeating unit(s) Ar^3 and/or repeating units $-T-$ which repeating unit(s) Ar^3 is selected from the group consisting of





r is an integer from 1 to 10,

q is an integer from 1 to 10,

s is an integer from 1 to 10,

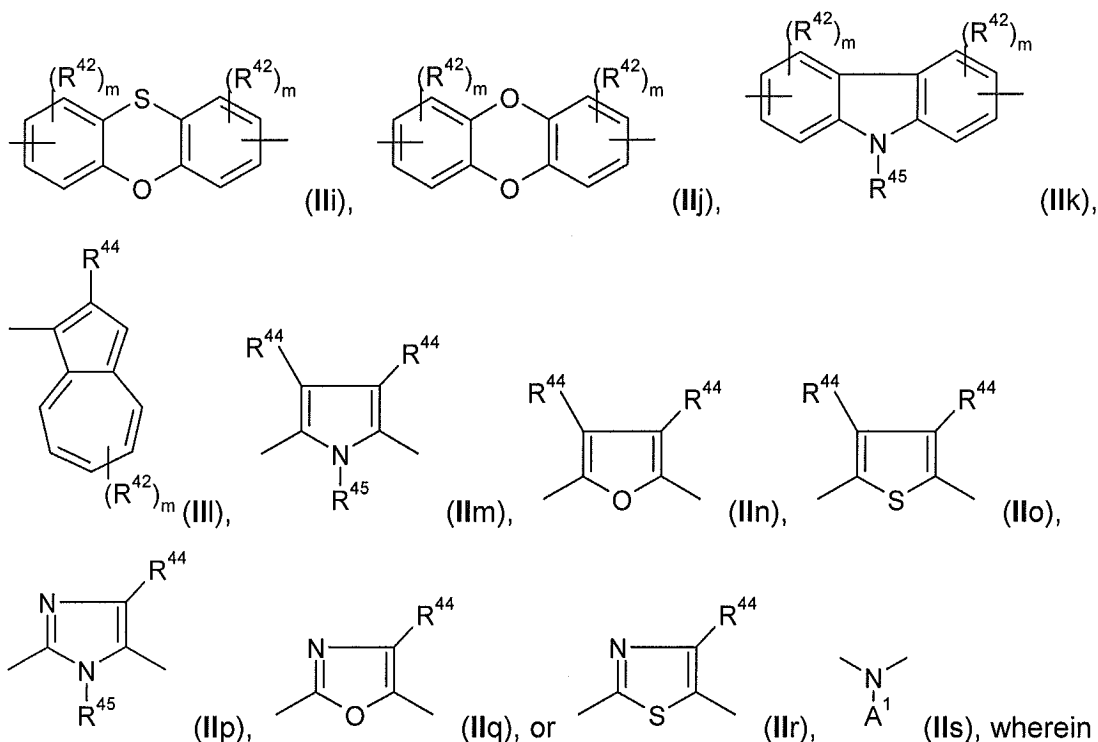
R^6 and R^7 are independently of each other H, halogen, $-CN$, C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, C_6-C_{24} aryl which is substituted by G, C_2-C_{20} heteroaryl, C_2-C_{20} heteroaryl which is substituted by G, C_2-C_{18} alkenyl, C_2-C_{18} alkynyl, C_1-C_{18} alkoxy, C_1-C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25} aralkyl, $-C(=O)-R^{17}$, $-C(=O)OR^{17}$, or $-C(=O)NR^{17}R^{16}$,

R^9 and R^{10} are independently of each other H, C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, C_6-C_{24} aryl which is substituted by G, C_2-C_{20} heteroaryl, C_2-C_{20} heteroaryl which is substituted by G, C_2-C_{18} alkenyl, C_2-C_{18} alkynyl, C_1-C_{18} alkoxy, C_1-C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25} aralkyl,

or R^9 and R^{10} together form a group of formula $=CR^{100}R^{101}$, wherein

R^{100} and R^{101} are independently of each other H, C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, C_6-C_{24} aryl which is substituted by G, or C_2-C_{20} heteroaryl, or C_2-C_{20} heteroaryl which is substituted by G,

or R^9 and R^{10} together form a five or six membered ring, which optionally can be substituted by C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, C_6-C_{24} aryl which is substituted by G, C_2-C_{20} heteroaryl, C_2-C_{20} heteroaryl which is substituted by G, C_2-C_{18} alkenyl, C_2-C_{18} alkynyl, C_1-C_{18} alkoxy, C_1-C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25} aralkyl, or $-C(=O)-R^{17}$, and



R^{41} can be the same or different at each occurrence and is Cl, F, CN, $N(R^{45})_2$, a C_1 - C_{25} alkyl group, a C_4 - C_{18} cycloalkyl group, a C_1 - C_{25} alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by $-NR^{45}$ -, $-O$ -, $-S$ -, $-C(=O)-O$ -, or $-O-C(=O)-O$ -, and/or wherein one or more hydrogen atoms can be replaced by F, a C_6 - C_{24} aryl group, or a C_6 - C_{24} aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R^{41} , or two or more groups R^{41} form a ring system;

R^{42} can be the same or different at each occurrence and is CN, a C_1 - C_{25} alkyl group, a C_4 - C_{18} cycloalkyl group, a C_1 - C_{25} alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by $-NR^{45}$ -, $-O$ -, $-S$ -, $-C(=O)-O$ -, or $-O-C(=O)-O$ -, and/or wherein one or more hydrogen atoms can be replaced by F, a C_6 - C_{24} aryl group, or a C_6 - C_{24} aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R^{41} , or two or more groups R^{41} form a ring system;

R^{44} can be the same or different at each occurrence and are a hydrogen atom, a C_1 - C_{25} alkyl group, a C_4 - C_{18} cycloalkyl group, a C_1 - C_{25} alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by $-NR^{45}$ -, $-O$ -, $-S$ -, $-C(=O)-O$ -,

or, -O-C(=O)-O-, and/or wherein one or more hydrogen atoms can be replaced by F, a C₆-C₂₄aryl group, or a C₆-C₂₄aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R⁴¹, or CN, or two or more groups R⁴⁴, which are in neighbourhood to each other, form a ring;

R⁴⁵ is H, a C₁-C₂₅alkyl group, a C₄-C₁₈cycloalkyl group, a C₁-C₂₅alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by -NR⁴⁵-, -O-, -S-, -C(=O)-O-, or, -O-C(=O)-O-, and/or wherein one or more hydrogen atoms can be replaced by F, a C₆-C₂₄aryl group, or a C₆-C₂₄aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R⁴¹;

m can be the same or different at each occurrence and is 0, 1, 2, or 3,

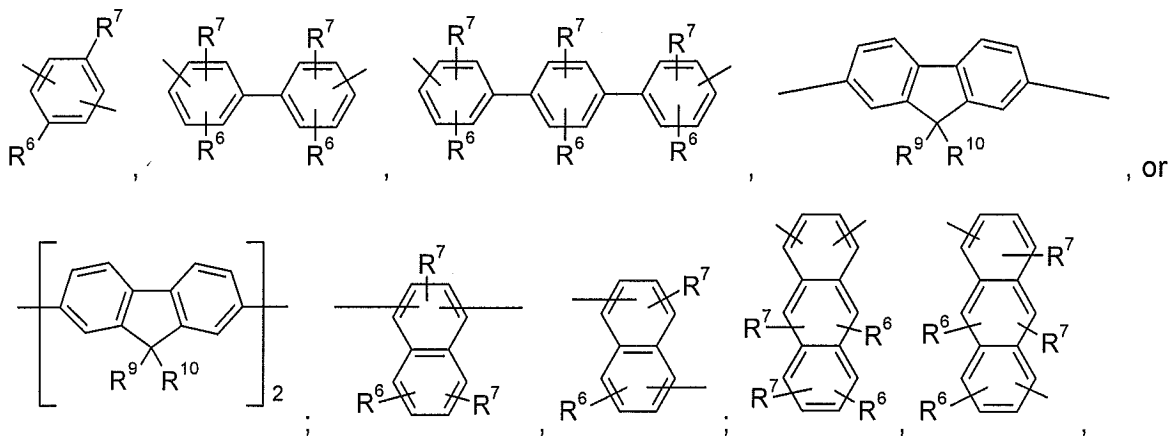
n can be the same or different at each occurrence and is 0, 1, 2, or 3

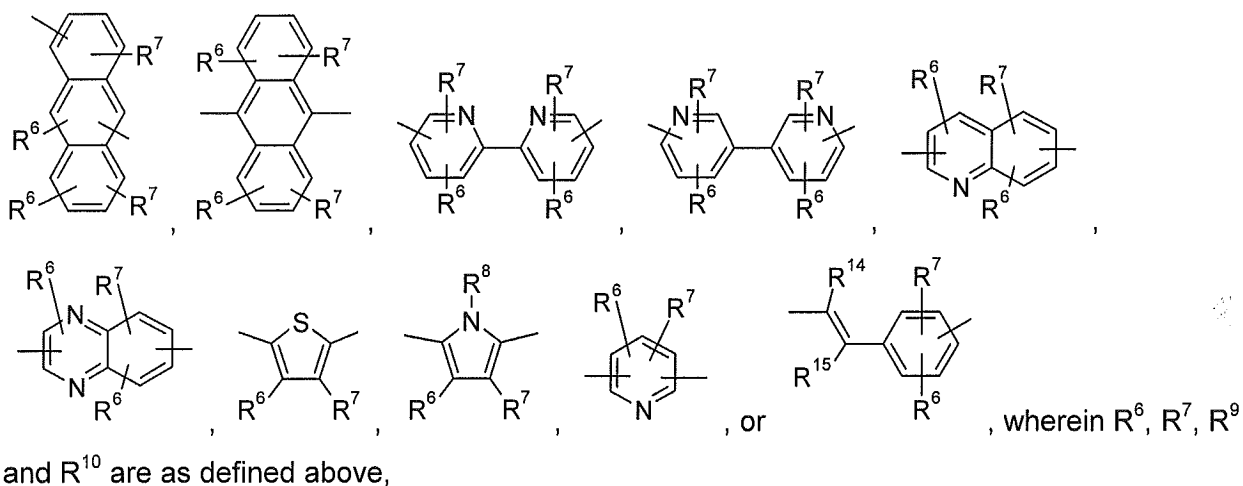
o is 1, 2, or 3,

and u is 1, 2, 3, or 4;

A¹ is a C₆-C₂₄aryl group, a C₂-C₃₀heteroaryl group, which can be substituted by one or more non-aromatic groups R⁴¹, or NO₂,

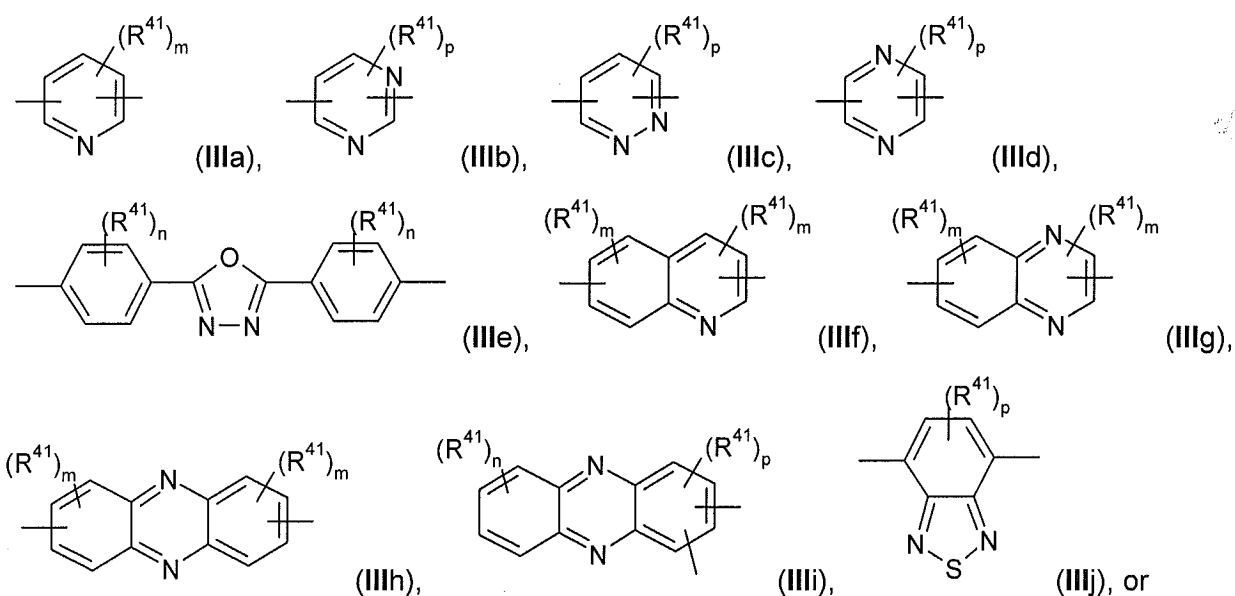
A² and A³ are independently of each other

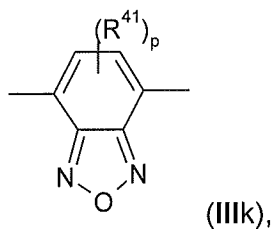




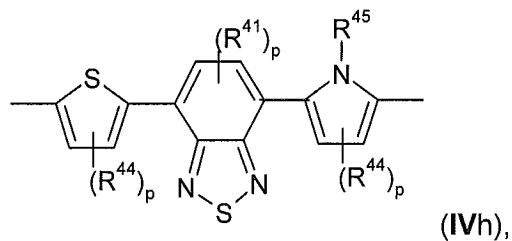
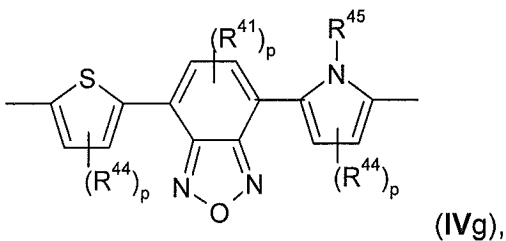
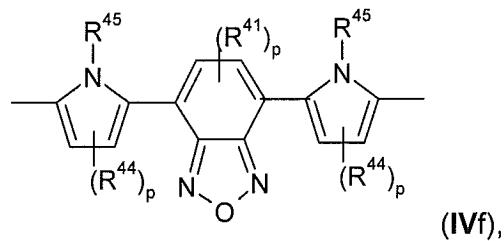
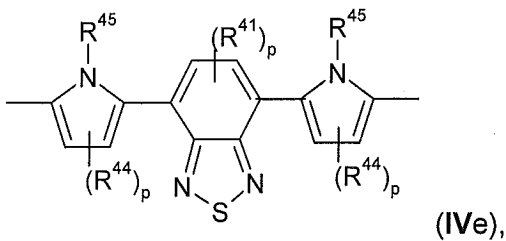
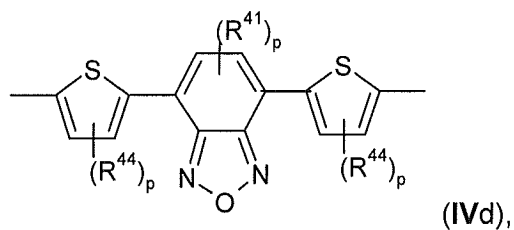
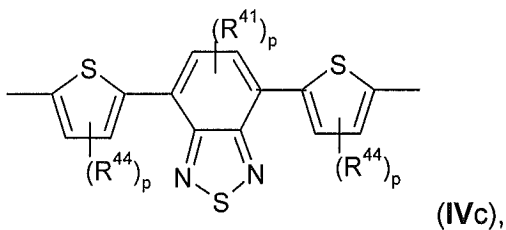
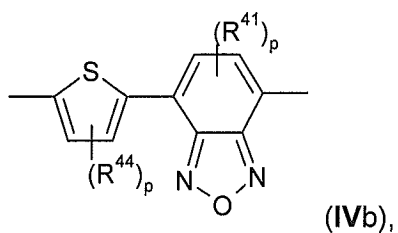
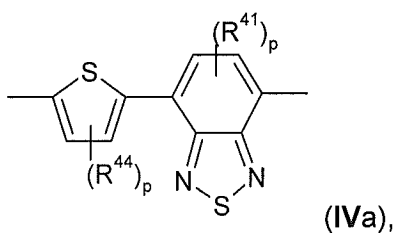
R^8 is H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, or C_7 - C_{25} aralkyl,

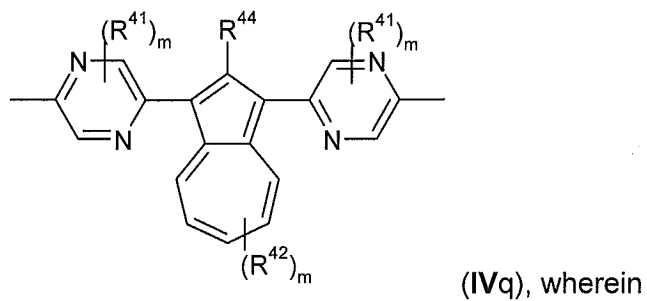
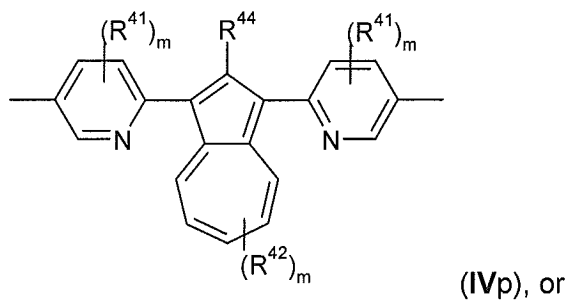
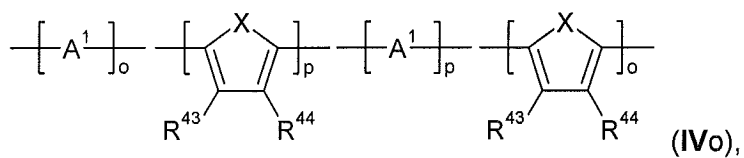
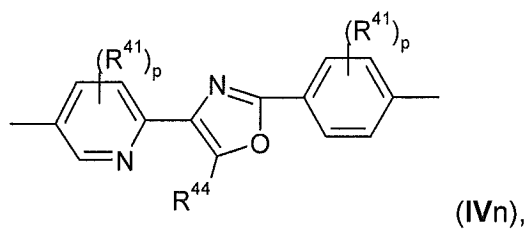
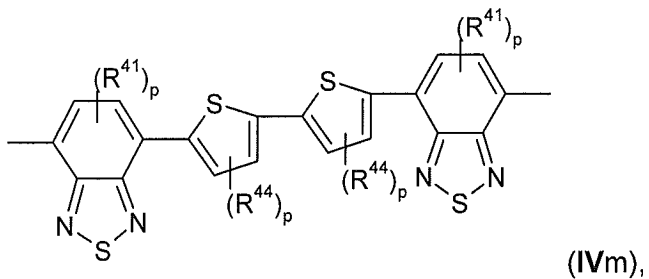
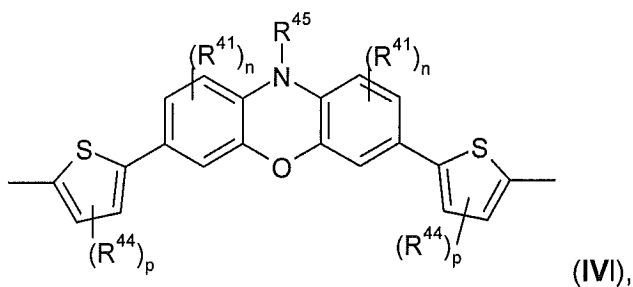
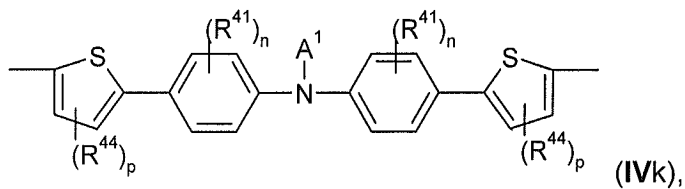
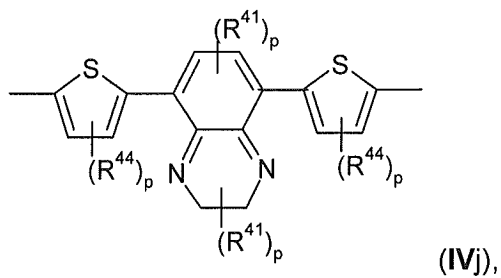
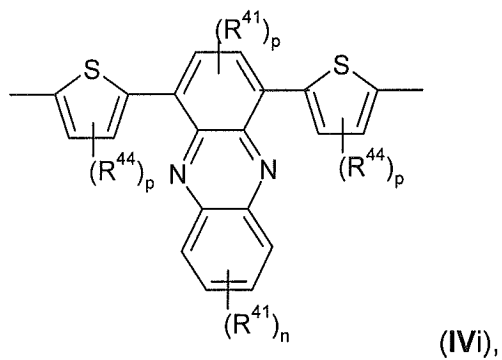
R^{14} and R^{15} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, or C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, wherein E and D are as defined above





wherein R^{41} and m and n are as defined above and p is 0, 1, or 2 ;



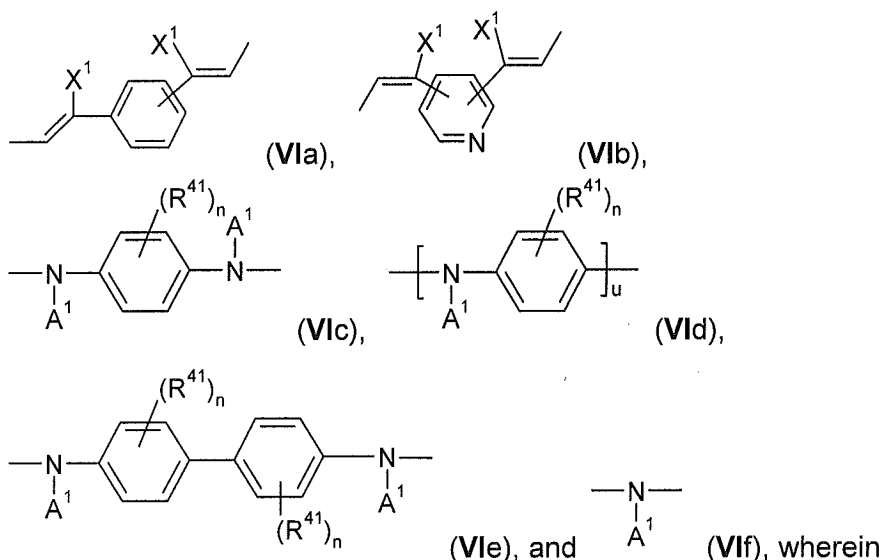


X is O, S, or NR⁴⁵,

R⁴³ is a hydrogen atom, a C₁-C₂₅alkyl group, a C₄-C₁₈cycloalkyl group, a C₁-C₂₅alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by -NR⁴⁵-, -O-, -S-, -C(=O)-O-, or, -O-C(=O)-O-, and/or wherein one or more hydrogen atoms can be replaced by F, a C₆-C₂₄aryl group, or a C₆-C₂₄aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R⁴¹, or CN, or

two or more groups R⁴³ and/or R⁴⁴, which are in neighbourhood to each other, form a ring; and A¹, R⁴¹, R⁴², R⁴⁴, R⁴⁵, m, n, o and p are as defined above;

and which repeating unit(s) -T- ~~which~~ is selected from the group consisting of



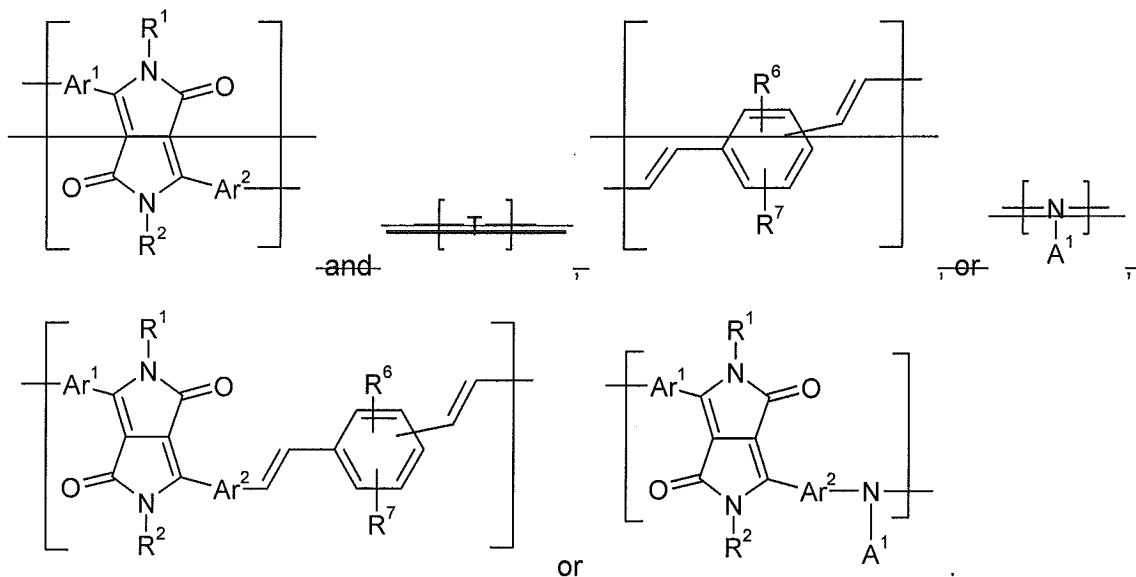
X¹ is a hydrogen atom, or a cyano group,

R⁴¹ can be the same or different at each occurrence and is Cl, F, CN, N(R⁴⁵)₂, a C₁-C₂₅alkyl group, a C₄-C₁₈cycloalkyl group, a C₁-C₂₅alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by -NR⁴⁵-, -O-, -S-, -C(=O)-O-, or -O-C(=O)-O-, and/or wherein one or more hydrogen atoms can be replaced by F, a C₆-C₂₄aryl group, or a C₆-C₂₄aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R⁴¹, or two or more groups R⁴¹ form a ring system;

n can be the same or different at each occurrence and is 0, 1, 2, or 3 and u is 1, 2, 3, or 4;

A^1 is a C_6 - C_{24} aryl group, a C_2 - C_{30} heteroaryl group, ~~especially phenyl, naphthyl, anthryl, biphenyl, 2-fluorenyl, phenanthryl, or perylenyl,~~ which can be substituted by one or more non-aromatic groups R^{41} .

5. **(currently amended)** The polymer according to claim 4, wherein the polymer comprises a repeating unit of formula



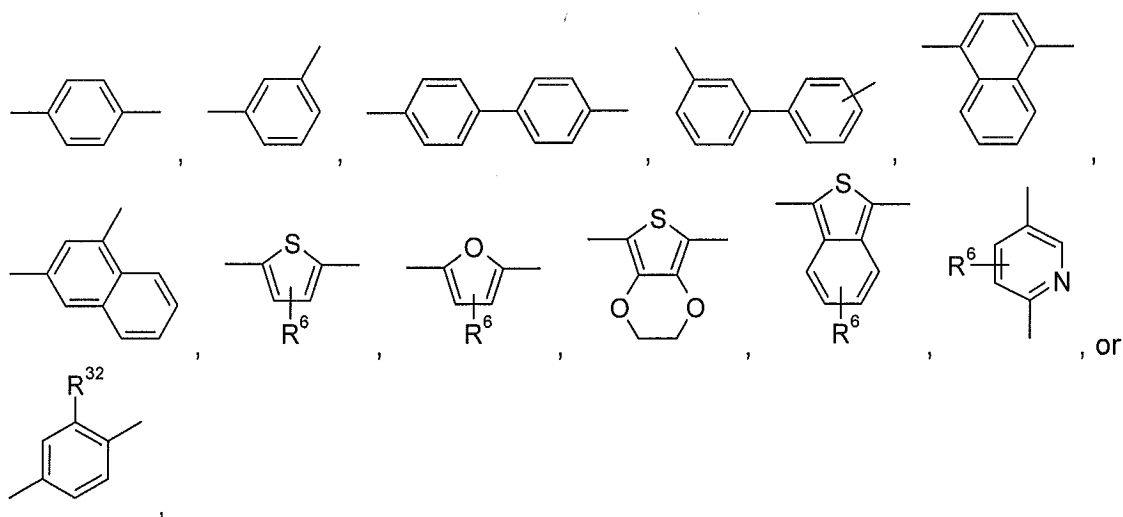
wherein

R^1 and R^2 are independently of each other a C_1 - C_{25} alkyl group, which can be interrupted by one or more oxygen atoms,

R^6 and R^7 are ~~as defined above and are especially~~ H, halogen, CN, C_1 - C_{12} alkyl, C_1 - C_{12} alkoxy, or C_6 - C_{14} aryl,

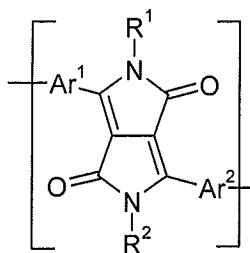
A^1 is a C_6 - C_{24} aryl group, a C_2 - C_{30} heteroaryl group, which can be substituted by one or more non-aromatic groups R^{41} , or NO_2 , and

Ar^1 and Ar^2 are independently of each other a group of formula



wherein R^6 is hydrogen, C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy, and R^{32} is methyl, Cl, or OMe.

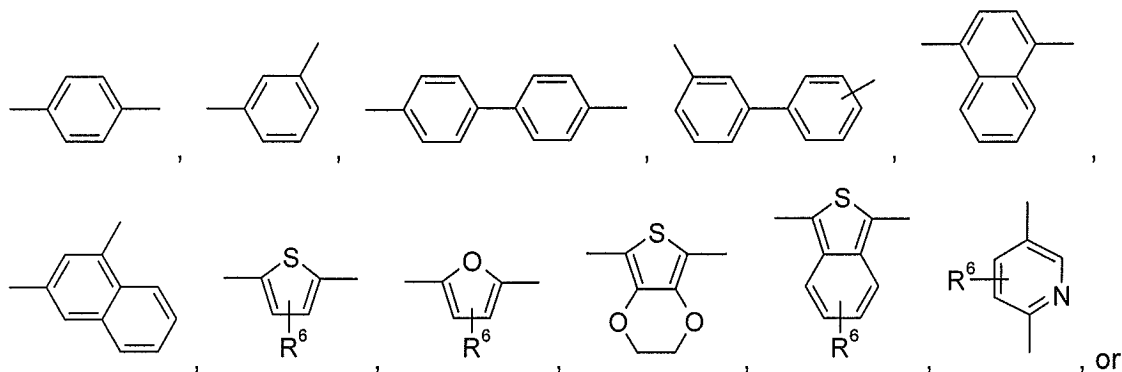
6. **(currently amended)** The polymer according to claim [[1]] 2, wherein the polymer is homopolymer comprising a repeating unit of formula

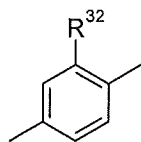


(I), wherein

R^1 and R^2 are independently of each other a C_1 - C_{25} alkyl group, which can be interrupted by one or more oxygen atoms, and

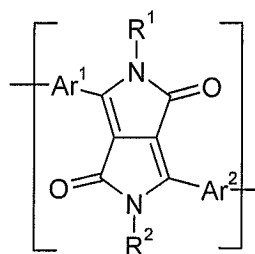
Ar^1 and Ar^2 are independently of each other a group of formula





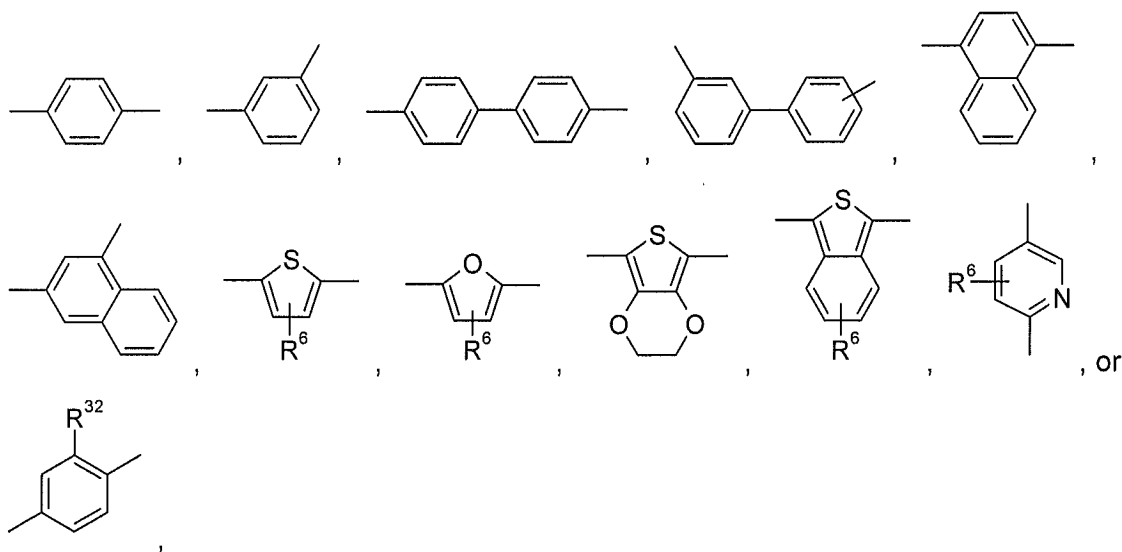
, wherein R^6 is hydrogen, C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy, and R^{32} is methyl, Cl, or OMe.

7. **(currently amended)** The polymer according to claim **[[1]] 2**, wherein the polymer comprises a repeating unit of formula

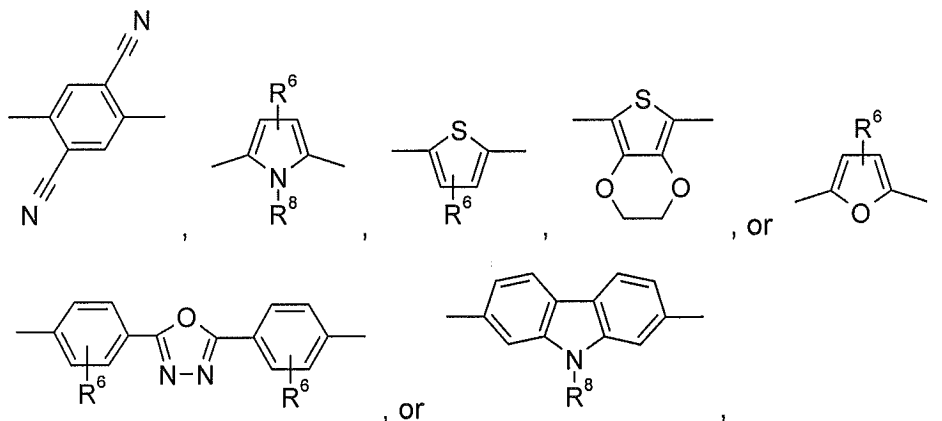


(I) and a repeating unit $[-Ar^3-]$, wherein

R^1 and R^2 are independently of each other a C_1 - C_{25} alkyl group, which can be interrupted by one or more oxygen atoms, and Ar^1 and Ar^2 are independently of each other a group of formula



wherein $-Ar^3-$ is a group of formula



wherein

R^6 is hydrogen, C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy, and R^{32} is methyl, Cl, or OMe, and

R^8 is H, C_1 - C_{18} alkyl, or C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, especially C_1 - C_{18} alkyl which is interrupted by $-O-$,

wherein

D is $-CO-$, $-COO-$, $-S-$, $-SO-$, $-SO_2-$, $-O-$, $-NR^{65}-$, $-SiR^{70}R^{71}-$, $-POR^{72}-$, $-CR^{63}=CR^{64}-$, or $-C\equiv C-$, and

E is $-OR^{69}$, $-SR^{69}$, $-NR^{65}R^{66}$, $-COR^{68}$, $-COOR^{67}$, $-CONR^{65}R^{66}$, $-CN$, $-OCOOR^{67}$, or halogen,

R^{63} , R^{64} , R^{65} and R^{66} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$;

or

R^{65} and R^{66} together form a five or six membered ring,

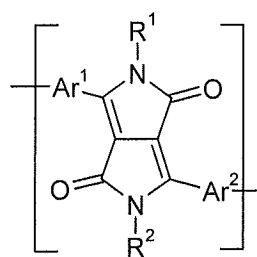
R^{67} and R^{68} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$,

R^{69} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkoxy; C_1 - C_{18} alkyl; or C_1 - C_{18} alkyl which is interrupted by $-O-$,

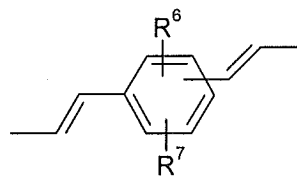
R^{70} and R^{71} are independently of each other C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, and

R^{72} is C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl.

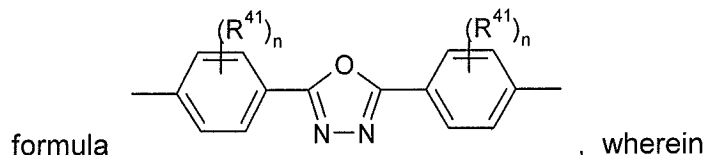
8. (currently amended) The polymer according to claim 1, wherein the polymer is a A terpolymer comprising a repeating unit of formula



(I), a repeating unit of formula

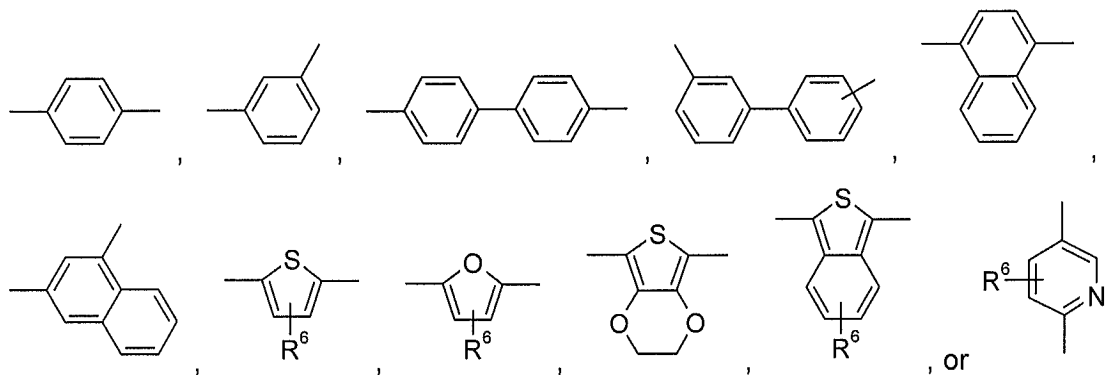


, and a repeating unit of



, wherein

R¹ and R² are independently of each other a C₁-C₂₅alkyl group, which can be interrupted by one or more oxygen atoms, and Ar¹ and Ar² are independently of each other a group of formula

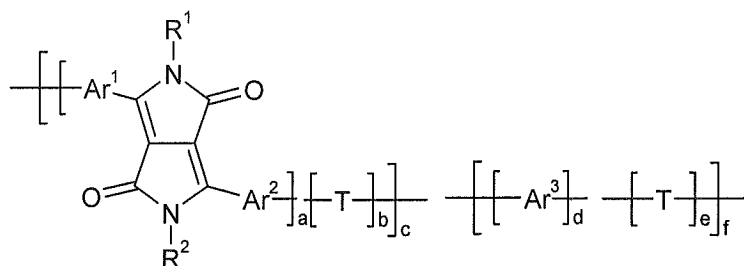


R⁶ and R⁷ are independently of each other H, halogen, CN, C₁-C₁₂alkyl, C₁-C₁₂alkoxy, or C₆-C₁₄aryl,

R⁴¹ is Cl, F, CN, N(R⁴⁵)₂, C₁-C₁₈alkyl, C₁-C₁₈alkoxy, or C₆-C₁₄aryl, wherein

R⁴⁵ is H, a C₁-C₂₅alkyl group, or a C₁-C₂₅alkoxy group, and
n is 0, 1, or 2.

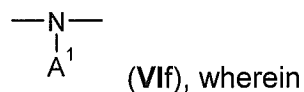
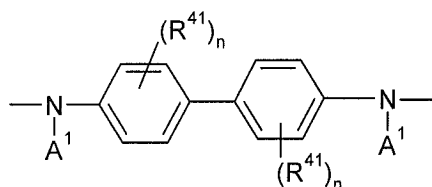
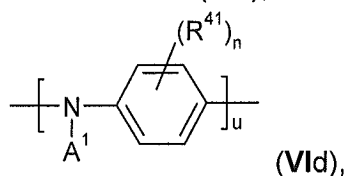
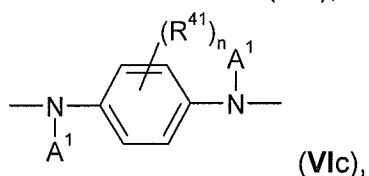
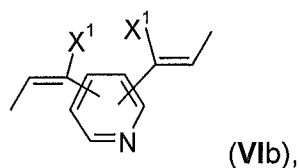
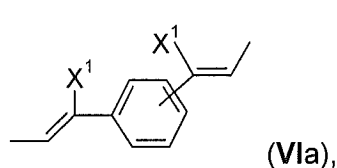
9. (currently amended) The polymer according to claim **[[1]]** 2, wherein the polymer is a polymer of formula



(VII), wherein

R^1, R^2, Ar^1, Ar^2 and Ar^3 are as defined in claim 1,

T is selected from the group consisting of



X^1 is a hydrogen atom, or a cyano group,

R^{41} can be the same or different at each occurrence and is Cl, F, CN, $N(R^{45})_2$, a C_1 - C_{25} alkyl group, a C_4 - C_{18} cycloalkyl group, a C_1 - C_{25} alkoxy group, in which one or more carbon atoms which are not in neighbourhood to each other could be replaced by $-NR^{45}-$, $-O-$, $-S-$, $-C(=O)-O-$, or $-O-C(=O)-O-$, and/or wherein one or more hydrogen atoms can be replaced by F, a C_6 - C_{24} aryl group, or a C_6 - C_{24} aryloxy group, wherein one or more carbon atoms can be replaced by O, S, or N, and/or which can be substituted by one or more non-aromatic groups R^{41} , or two or more groups R^{41} form a ring system;

n can be the same or different at each occurrence and is 0, 1, 2, or 3 and u is 1, 2, 3, or 4;

A¹ is a C₆-C₂₄aryl group, a C₂-C₃₀heteroaryl group, ~~especially phenyl, naphthyl, anthryl, biphenyl, 2-fluorenyl, phenanthryl, or perylenyl,~~ which can be substituted by one or more non-aromatic groups R⁴¹,

a is 1,

b is 0, or 1,

c is 0.005 to 1,

d is 0, or 1,

e is 0, or 1, wherein e is not 1, if d is 0,

f is 0.995 to 0, wherein the sum of c and f is 1.

10. **(currently amended)** An electronic device or a component therefore, comprising the polymer comprising a repeating unit of the formula I according to claim ~~[[1]]~~ 2.

11. **(original)** An electronic device according to claim 10, wherein the device comprises an electroluminescent device.

12. **(currently amended)** An electronic device according to claim 11, wherein the electroluminescent device comprises

(a) a charge injecting layer for injecting positive charge carriers,

(b) a charge injecting layer for injecting negative charge carriers,

(c) a light-emissive layer located between the layers (a) and (b) comprising the polymer comprising a repeating unit of the formula I. ~~according to claim 1.~~

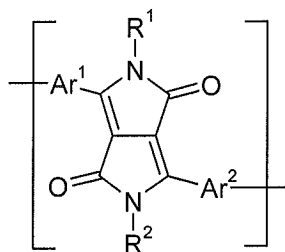
13. **(cancelled)**

14. **(currently amended)** PLEDs, organic integrated circuits (O-ICs), organic field effect transistors (OFETs), organic thin film transistors (OTFTs), organic solar cells (O-SCs), or organic laser diodes comprising one or more of the polymers according to claim ~~[[1]]~~ 2.

15-18. **(cancelled)**

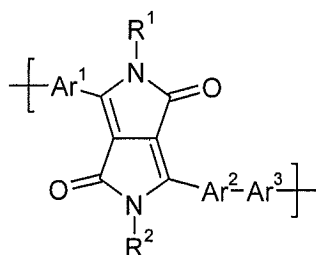
19. **(new)** An electronic device or a component therefore comprising the polymer according to claim 8.

20. **(new)** The polymer according to claim 4, wherein the polymer comprises a repeating unit of formula

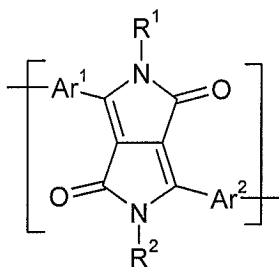


and a repeating unit -T-.

21. **(new)** The polymer according to claim 4, wherein the polymer is a homopolymer comprising a repeating unit of formula

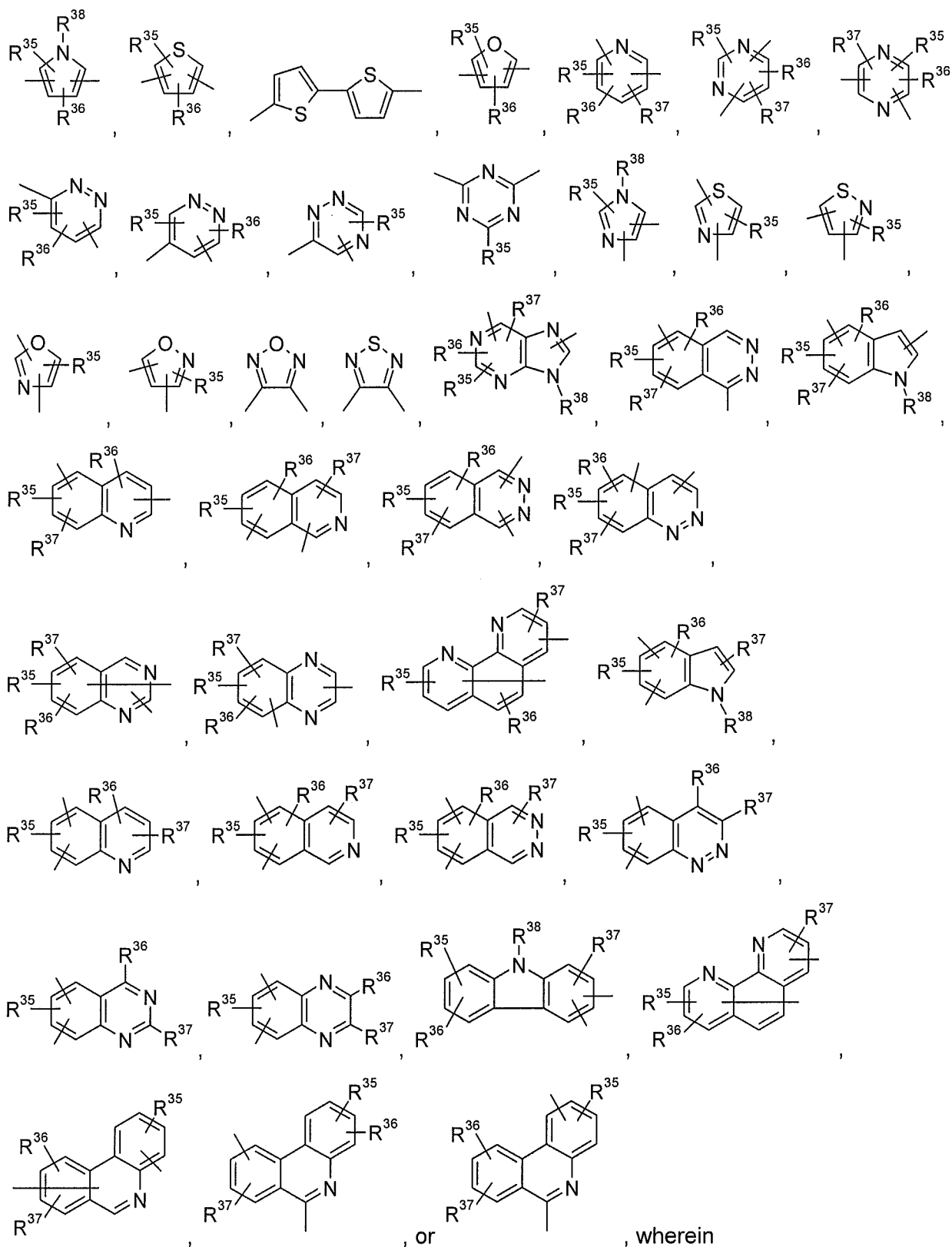


22. **(new)** A polymer comprising a repeating unit of the formula



(I), wherein

Ar¹ and Ar² are independently of each other



group, an aralkyl group, an alkenyl group, a cycloalkenyl group, an alkynyl group, a hydroxyl group, a mercapto group, an alkoxy group, an alkylthio group, an aryl ether group, an aryl thioether group, an aryl group, a heterocyclic group, a halogen atom, a haloalkyl group, a haloalkenyl group, a haloalkynyl group, a cyano group, an aldehyde group, a carboxyl group, an ester group, a carbamoyl group, an amino group, a nitro group, a silyl group, a siloxanyl group, a substituted or unsubstituted vinyl group, an alkylamino group, an dialkylamino group, an alkylaryl amino group, an aryl amino group and a diarylamino group, or at least two adjacent substituents R^5 to R^7 form an aromatic or aliphatic fused ring system, R^{38} is a hydrogen atom, a C_1 - C_{25} alkyl group, a cycloalkyl group, an aralkyl group, an aryl group, or a heterocyclic group,

R^1 and R^2 are independently of each other a C_1 - C_{25} alkyl group which can optionally be interrupted by one or more oxygen atoms, an allyl group which can optionally be substituted one to three times with C_1 - C_4 alkyl, a cycloalkyl group which can be optionally substituted one to three times with C_1 - C_8 alkyl or C_1 - C_8 alkoxy, a cycloalkyl group which can optionally be condensed one or two times by phenyl which phenyl can optionally be substituted one to three times with C_1 - C_4 alkyl, halogen, nitro or cyano, an alkenyl group, a cycloalkenyl group, an alkynyl group; a C_1 - C_{25} alkyl group, an alkenyl group or an alkynyl group substituted partially or wholly by halogen, an aldehyde group, an ester group, a carbamoyl group, a ketone group, a silyl group, a siloxanyl group, Ar^3 or a group $-CR^3R^4-(CH_2)_g-Ar^3$, wherein R^3 and R^4 independently from each other stand for hydrogen, fluorine, cyano or C_1 - C_4 alkyl which can be substituted by fluorine, chlorine or bromine, or phenyl which can be substituted one to three times with C_1 - C_4 alkyl, Ar^3 stands for aryl or heteroaryl and g stands for 0, 1, 2, 3 or 4.

23. **(new)** The polymer according to claim 1, wherein Ar^3 stands for phenyl or 1- or 2-naphthyl which phenyl or 1- or 2-naphthyl can be substituted one to three times with C_1 - C_8 alkyl and/or C_1 - C_8 alkoxy.

24. **(new)** An electronic device or a component therefore comprising the polymer according to claim 22.